

# SYSTEM AND METHOD FOR ALIGNING MULTI-CHANNEL CODED DATA OVER MULTIPLE CLOCK PERIODS

## ABSTRACT

5 A system and method is provided for aligning multi-channel coded data over multiple clock periods. Data is received through a plurality of data channels and stored in a plurality of latches or queues. Data is scanned to determine whether a valid data transition has occurred. Once a valid transition is detected on all of the plurality of data channels, data is substantially simultaneously read out of the latches or queues resulting in synchronized or  
10 aligned data being provided at the output.